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Sender's Name: Pamela D. Grooms

Isis Ref. No.: ISIS-2960 Date January 7, 2004 Serial Number: 09/067,638 Filing Date: April 28, 1998

Art Unit: 1631

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Name: Pamela Grooms

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Under the Peperwork Reduction Act of 1995.		U.S. Paten	t and Tankson or Office	THE DE	PTO/SB/21 (98-93) 1 08/30/2003, OMB 0651-0031 PARTMENT OF COMMERCE 2.3 a velid OMB control number.
Under the Peoplework Reduction Act of 1995.	(O DEISON	Application Number	09/067,635		
TRANSMITTAL		Filing Date	April 28, 1998		
FORM		First Named Inventor	Lex M, Cowsert		
(to be used for all correspondence after initial fi	ling)	Art Unit	1631		
	(10.20.0000101.001101101101101101101101101101		Ardin H. Marschel		
Total Number of Pages in This Submission	18	Attorney Docket Number	ISIS-2960		
1900 Hamistra of Lagoo in Find	ENC	LOSURES (Check all tha	t apply)		
Fee Transmittal Form Fee Attached Amendment/Reply After Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53	Rema	Drawing(s) Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence Addr Terminal Disclaimer Request for Refund CD, Number of CD(s) rks tion of Power of Attorney with S	ess Sta	echnological Compensis a peal Compensis a peal Notice prietary litus Lette her Encionity belo	sure(s) (please w):
SIGNA	TURE (OF APPLICANT, ATTORN	EY, OR AGEN	Ī	
Firm or Individual name Signature Date CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Typed or printed name					
Pamela Grooms Signature Pamela Grooms	aff	100m	<u>-</u>	Date	1/7-12004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is settimated to 12 minutes to complete, including gethering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/82 (09-03)
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REVOCATION OF POWER OF ATTORNEY WITH NEW POWER OF ATTORNEY AND

CHANGE OF CORRESPONDENCE ADDRESS

Application Number	09/067,638
Filing Date	April 28, 1998
First Named Inventor	Lex M. Cowsert
Art Unit	1631
Examiner Name	Ardin H. Marschel
Attorney Docket Number	ISIS-2960

I hereby revoke all previous powers of attorney given in the above-identified application.						
A Power of Attorney	is submitted her	rewith.				
OR I hereby appoint the practitioners associated with the Customer Number: 35807						
Please change the co						
Customer Numb			35807			
Firm <i>or</i> Individual Name						- · · · · · · · · · · · · · · · · · · ·
Address					To a	
Address						
City			State		Zip	
Country					·	
Telephone			Fax			
I am the: Applicant/Inventor.						
Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)						
SIGNATURE of Applicant or Assignee of Record						
Name B. Lynne Parshall		·				
Signature						
Date / 1-5-			Telephone	760 603-2460	h of l. d '-	
NOTE: Signatures of all the inventors signature is required, see below.	or assignees of record	of the entire interest or ti	ieir representative(s)	are required. Subm	it multiple forms if	more than one
*Total of 2- forms	s ere submitted.					

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gethering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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STATEMENT UNDER 37 CFR 3.73(b)
Applicant/Patent Owner: 1515 Pharmaceuticals, Inc.
Application No./Patent No.: 09/067, 638 Filed/Issue Date: April 28, 1998
Entitled: Identification of Senefic Targets for Modulation by Oligonucleotides and generation of Oligonucleotides for Gene Modulation ISIS Pharmaceuticals, Inc., a Corporation (Name of Assignee) (Type of Assignee, o.g., corporation, partnership, university, government agency, etc.)
states that it is: 1. 💢 the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest. The extent (by percentage) of its ownership interest is ————% in the patent application/patent identified above by virtue of either:
A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel <u>DIDOFF</u> , Frame <u>OGF</u> , or for which a copy thereof is attached.
OR
B. [] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:
From: To: The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.
2. From:To:
The document was recorded in the United States Patent and Trademark Office at Reel, or for which a copy thereof is attached.
3. From:To:To:To:
The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.
[] Additional documents in the chain of title are listed on a supplemental sheet.
[] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]
The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.
1-5-04 B. Lynne Burnall
760 (003 - 2460) Typed or printed name
Telephone number Signature
Executive Vice President &CFO

This collection of information is required by 37 CFR 3,73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trackmark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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SEP 1 7 1999



SEPTEMBER 07, 1999

PTAS
WOODCOCK WASHBURN KURTZ MACKIEWICZ &
NORRIS, LLP, PAUL K. LEGAARD
ONE LIBERTY PLACE - 46TH FLOOR
1650 MARKET STREET
PHILADELPHIA, PENNSYLVANIA 19103-7301

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER JULY PLATENTS AND TRADEMARKS
Washington, D.C. 2023





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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/06/1999

REEL/FRAME: 010072/0689 NUMBER OF PAGES: 13

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS)

ASSIGNOR:

COWSERT, LEX M.

DOC DATE: 05/26/1999

ASSIGNOR:

. BAKER, BRENDA F.

DOC DATE: 05/20/1999

ASSIGNOR:

MCNEIL, JOHN

DOC DATE: 06/02/1999

ASSIGNOR:

FREIER, SUSAN M.

DOC DATE: 06/09/1999

ASSIGNOR:

SASMOR, HENRI M.

DOC DATE: 06/11/1999

ASSIGNOR:

BROOKS, DOUGLAS G.

DOC DATE: 06/03/1999

ASSIGNOR:

OHASHI, CARA

TO EGGIVE !

DOC DATE: 05/05/1999

AS ASSESSED OF THE PROPERTY OF

0/-

1

010072/0689 PAGE 2

ASSIGNOR:

WYATT, JACQUELINE R.

DOC DATE: 05/24/1999

ASSIGNOR:

BORCHERS, ALEXANDER H.

DOC DATE: 05/20/1999

ASSIGNOR:

VICKERS, TIMOTHY A.

DOC DATE: 05/27/1999

ASSIGNEE:

ISIS PHARMACEUTICALS, INC.

2292 FARADAY AVENUE

CARLSBAD, CALIFORNIA 92008

SERIAL NUMBER: 09067638

PATENT NUMBER:

FILING DATE: 04/28/1998

ISSUE DATE:

MAURICE CARTER, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

01/12/2004 14:30 FAX 760 603 3820 PATENTS	
FORM PTO-1595 1 CG 07-09	
1-31-92	Patent and Trademark Office
17 TO THE STATE OF	AIN TAINE BRUIL BARIA AUN BARI
To The Honorable Commissioner of Pate 10108 thereof.	
Name of conveying party(les):	2. Name and address of recent 中国 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图
Lex M. Cowsert; Brenda F. Baker; John McNeil;	Name: ISIS Pharmaceuticals, Ind
Susan M. Freier; Henri M. Sasmor, Douglas G. Brooks; Cara Ohashi; Jacqueline R. Wyatt; Alexander	
H. Borchers; and Timothy A. Vickers	JUL &
The modern and the many the transfer	Street Address:
Additional name(s) of conveying party(les)	
attached? () YES (X) NO	City Codebad
3. Nature of Conveyance:	City: Carlsbad
(X) Assignment () Merger	State California ZIP 92008
() Security Agreement () Change of Name	Additional manufal R address attached 2 / 1978 /915/0
() Other:	Additional name(s) & address attached? ()YES (X)NO
Execution Date(s): May 26, 1999; May 20, 1999; June	
2, 1999; June 9, 1999; June 11, 1999; June 3, 1999; May 5, 1999; May 24, 1999; May 20, 1999; and May	:
27, 1999	
If this document is being filed together with a new app A. Patent Application No.(s)	B. Patent No.(s)
Additional numbers at	ttached? () YES (X) NO
5. Name and address of party to whom correspondence	6. Total number of applications and patents involved:
concerning documents should be mailed: Name: Paul K. Legaard	One
Internal Address: WOODCOCK WASHBURN KURTZ	7. Total fee (37 CFR 3.41):\$40.00
MACKIEWICZ & NORRIS LLP One Liberty Place - 46th Floor	(X) Enclosed () Authorized to be charged to Deposit Account
Philadelphia, Pennsylvania 19103-7301	Number 23-3050
Street Address: WOODCOCK WASHBURN KURTZ	e e
MACKIEWICZ & NORRIS LLP	8. Please charge any deficiency or credit any
One Liberty Place - 46th Floor	overpayment to Deposit Account Number 23-3050
1650 Market Street Philadelphia, Pennsylvania 19103-7301	·
	SE THIS SPACE
	32 11113 31 AOL
9. Statement and signature. To the best of my knowledge and belief, the foregoing in	formation is true and correct and any attached copy is a true
copy of the original document.	Officially in the die correct and any terms
	June 29, 1999
Paul K. Legaard 38,534 Name of Person Signing/Reg. No.	nature Date
Total number of pa	ages including cover sheet, attachments, and document: 14
Mail documents to be recorded with required cover sheet	information to:
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708/1999 NTHALL 00000155 09067638 Box A	ssignments
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PATENTS

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DOCKET NO.: 1SIS-2960

PATENT

ASSIGNMENT

WHEREAS, We, Lex M. Cowsert, of Carlsbad, California; Brenda F. Baker of Carlsbad, California; John McNeil of La Jolla, California; Susan M. Freier of San Diego, California; Henri M. Sasmor of Encinitas, California; Douglas G. Brooks of Marcos, California; Cara Ohashi of San Francisco, California; Jacqueline R. Wyatt of Encinitas, California; Alexander H. Borchers of Encinitas, California and Timothy A. Vickers of Oceanside, California, have invented a certain invention entitled IDENTIFICATION OF GENETIC TARGETS FOR MODULATION BY OLIGONUCLEOTIDES AND GENERATION OF OLIGONUCLEOTIDES FOR GENE MODULATION, for which we have made application for Letters Patent of the United States, said application having been filed April 18, 1998 and assigned Application No. 09/067,638; and

WHEREAS, ISIS Pharmaceuticals, Inc. hereinafter referred to as the assignee, of 2292 Faraday Avenue, Carlsbad CA, a corporation of Delaware, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign

ASSIGNMENT - PAGE 1 OF 12

DOCKET NO.: ISIS-2960

PATENT

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F-867

to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

ASSIGNMENT - PAGE 2 OF 12

Apr-27-89 09:28

From-WOODCOCK WASHBURN 33

T-081 P.05/18 F-867

DOCKET NO.: ISIS-296	0	PATENT
IN WITNESS WE	IEREOF, we have	hereunto set our hands and seals.
Dated: <u>5/26</u>	1999	Lex M. Cowsert
State of California)) ss.	/
County of Can Diego	ì	

Signature of Notary

LANE B.D. SCHWARTZ
Commission # 1196197
Notary Public - California
Son Diego County
My Comm. Expires Sep 13, 2002

WITNESS my hand and official seal.

ASSIGNMENT - PAGE 3 OF 12

From-WOODCOCK WASHBURN 33

DOCKET NO.: ISIS-2960

Dated:

PATENT

IN MITNESS WHE	KHOF, We ha	ve hereunto set our nameratio seats.
May 20	1999	ve hereinio sei dui nanta sun seats.
1 ()		(Brenda F. Baker)

State of California)	
)	S
County of San Diego)	

_, 1999, before me, the undersigned, a Notary Public for the state, personally appeared (Brenda F. Baker) personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that be the executed the same in the her authorized capacity, and that by higher signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

Signature of Notary

LANE B.D. SCHWARTZ Commission # 1196197 Notary Public - California San Diego County

WITNESS my hand and official seal.

ASSIGNMENT - PAGE 4 OF 12

executed the Assignment.

LANE B.D. SCHWARTZ Commission # 1196197

From-WOODCOCK WASHBURN 33

F-867

DOCKET NO.: ISIS-2960						PATENT
IN WITNESS Dated: (/2/59	WHE:	REOF, w 1999	ve have hereum	te sel our hands IcNeil)	and seals.	
State of California)	SS.				;
County of San Diego)					
On this	erson ry evi c eriek	ally appe lonce t o l he execu	gared (John Mi he the person w ted the same it	rNen) personan /ho subscribed th (/his/her authori	y known to r he foregoing zed capacity	Me /proved to Assignment , and that by

WITNESS my hand and official seal.

Notary Public - California San Diego County

ASSIGNMENT - PAGE 5 OF 12

Ø 013

T-081 2.08/16 F-867

DOCKET NO.: ISIS-2960

PATENT

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

1999 Aunther:
(Susan M. Freier)

State of California) ss.
County of San Diego)

WITNESS my hand and official seal.

LANE B.D. SCHWARIZ
Commission # 1196197
Notary Public - California
San Diego County
My Comm. Expires Sep 13, 2002

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ASSIGNMENT - PAGE 6 OF 12

四014 T-081 P.09/18 F-867

DOCKET NO.: ISIS-2960

PATENT

Dated: 6-11-99	, 1999	(Henri M. Sass		· ·
State of California)			
County of San Diego) ss.			
On this	personally app hisfactory evic lged to me that re on the Assi	eared (Henri M. Sa denee to be the p type she executed t	erson who subscrib he same in pis her ar	nown to me/proved ned the foregoing athorized capacity,

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

LANE B.D. SCHWARTZ
Commission # 1196197
Notary Public - California
San Diego County
My Comm. Expires Sep 13, 2002

WITNESS my hand and official seal.

ASSIGNMENT - PAGE 7 OF 12

T-081 P.10/18 F-867

DOCKET NO.: ISIS-2960

PATENT

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Dated: 6/3/99	, 1999	Dougla Sant	
		(Douglas G. Brooks)	
State of California)		
County of San Diego) <u>\$</u> \$. }		

PATENTS

LANE 8.D. SCHWARTZ
Commission # 1196197
Notary Public - California \$
San Diego County
My Comm. Expires Sep 13, 2002

WITNESS my hand and official seal.

ASSIGNMENT - PAGE 8 OF 12

DOCKET NO.: ISIS-2960

PATENT

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Dated: Way 5	, 1999	<u>Cana</u> (Cara Oha	a Ohashi
Notary Public for the me on the basis of sa and acknowledged t	day of	peared (Cara o be the person cuted the same	, 1999, before me, the undersigned, Ohashi) personally known to me/proved to m who subscribed the foregoing Assignment he in his/her authorized capacity, and that be entity on behalf of which the person acted

WITNESS my hand and official seal.

JOHN F. HELFRICH
CONIM #1134646
NOTARY PUBLIC-CALIFORNIA
SAN MATEO COUNTY
My Commission Expires April 18, 2001

Signature of Notary

☑ 017 T-081 P-12/18 F-867

DOCKET NO.: ISIS-2960

PATENT

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Dated: 5/24/19	. 1999	Onequeline Resignati	
		(Jacqueline R. Wyatt)	
State of California)) ss.		
County of San Diego)		

On this day of 1999, before me, the undersigned, a Notary Public for the state, personally appeared (Jacqueline R. Wyart) personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

Signature of Notary

LANE B.D. SCHWARTZ
Commission # 1196197
Notary Public - Catifornia
San Dlego County
My Comm. Expires Sep 13, 2002

WITNESS my hand and official seal.

ASSIGNMENT - PAGE 10 OF 12

DOCKET NO.: 1SIS-2960

PATENT

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Dated: <u> </u>	, 19	9 9	(Alexander H. Borchers)
State of California)	SS-	
County of San Diego	í		

Signature of Notary

LANE B.D. SCHWARIZ
Commission # 1196197
Notary Public - California San Diego County
My Comm. Expires Sep 13, 2002

WITNESS my hand and official seal.

ASSIGNMENT - PAGE 11 OF 12

☑ 019 T-081 P.14/18 F-867

DOCKET NO.: 1SIS-2960

PATENT

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Dated: 5/27/95 1999

(Timothy A. Vickers)

State of California

36.

County of San Diego

On this day of 1999, before me, the undersigned, a Notary Public for the state, personally appeared (Timothy A. Vickers) personally known to me/proved to me on the hasis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Signature of Notary

ASSIGNMENT - PAGE 12 OF 12